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Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class/Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Thumb War Lab Report Rubric**

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| --- | --- | --- | --- | --- |
| **Category** | | **Excellent** | **Good** | **Needs Improvement** |
| **A) Purpose** | | The purpose of the lab or the question to be answered during the lab is concisely identified and stated in 1-2 sentences.  (2 points) | The purpose of the lab or the question to be answered during the lab is identified, but is stated in a somewhat unclear manner.  (1 point) | The purpose of the lab or the question to be answered during the lab is erroneous or irrelevant.  (0 points) |
| **B) Hypothesis** | | Hypothesis is stated in an “If..and..then” statement showing the cause and effect relationship between the IV and DV. It is testable and yields numeric data.  (2 points) | Hypothesis is stated in an “If..and..then” statement **lacking** any of the following:  1. the cause and effect relationship between the DV and IV  2. testability  3. numeric data  (1 point) | Hypothesis is not stated in “if..and…then” format lacking the cause and effect relationship between the DV and IV.  (0 points) |
| **C) Tables and Graphs** | | All tables and graphs are neat, properly labeled, and accurately supports the purpose of the lab.  (5 points) | Tables and graphs are lacking one of the following criteria:   1. Neat 2. Properly labeled 3. Accurately supports the purpose of the lab   (3 points) | Tables and graphs are incomplete or inaccurate.  (1 point) |
| **D) Discussion Questions** | | All questions are correctly answered using appropriate academic vocabulary and complete sentences.  (5 points) | Many questions are correctly answered using appropriate academic vocabulary and complete sentences.  (3 points) | Some questions are correctly answered using appropriate academic vocabulary and complete sentences.  (1 point) |
| **Conclusion** | **E) Results**  **Evidence**  **Explanations** | * Conclusion begins with a clear, concise discussion of the purpose of the experiment or study. * All of the important results are explained in relation to the purpose statement. * The results statement includes (numerical) evidence when appropriate. * A clear and concise explanation of how the data supports or refutes expectations or hypotheses is given.   (5 points) | * The purpose of the experiment or study is mentioned but is not clear, concise, and accurate. * Most of the important results are explained in relation to the purpose statement. * The results statement includes evidence that is not numerical when needed. * Some explanation of results is given but no mention of how the data supports or refutes expectations or hypotheses.   (3 points) | * There is no mention of the purpose or the subject of the study. * The results of the experiment or study are not stated. * Little evidence is given for the results of the experiment. * Little explanation of whether the data supports or refutes expectations or hypotheses is given.   (1 point) |
| **F) Possible Errors** | At least two examples of procedural errors or uncertainties that could lead to inaccurate data are identified and explained. Discuss ways to avoid these errors in the future.  (5 points) | Examples of procedural errors or uncertainties are identified but no discussion of ways to avoid these errors.  (3 points) | Unclear examples of procedural errors or uncertainties that could lead to inaccurate data are identified and explained.  (1 point) |
| **G) Practical Applications** | A clear, concise explanation what you learned in this lab, and recommendations for follow-up experiments.  (5 points) | An explanation lacking one of the following:  1. What you learned in this lab  2. Recommendations for follow-up experiments  (3 points) | An explanation lacking both of the following:  1. What you learned in this lab  2. Recommendations for follow-up experiments  (1 point) |

Total Point \_\_\_\_\_\_\_/29 points Grade \_\_\_\_\_\_\_\_%